## **AMENDMENTS TO THE CLAIMS:**

Please amend the claims as follows. This listing of claims will replace all prior listings.

## 1. (CURRENTLY AMENDED)

A semi-rigid mold member, comprising:

- a first ply, comprising an elastomeric sheet rubber and a release film;
- a second ply adjacent said first ply; and
- a sieve member adjacent said first ply and said second ply, said sieve member adjacent said elastomeric sheet rubber opposite said release film.
- 2. (ORIGINAL) The semi-rigid mold member as recited in claim 1, wherein said sieve member is embedded in said first ply.
- 3. (ORIGINAL) The semi-rigid mold member as recited in claim 1, wherein said first ply and said second ply include a fluoroelastomer material.
- 4. (ORIGINAL) The semi-rigid mold member as recited in claim 1, wherein said sieve member includes a stainless steel screen.
- 5. (ORIGINAL) The semi-rigid mold member as recited in claim 4, wherein said screen provides approximately 60 micron retention.
- 6. (CURRENTLY AMENDED) The semi-rigid mold member as recited in claim 1, further comprising wherein said release film comprises an FEP layer adjacent said first ply and opposite said second ply.
- 7. (ORIGINAL) The semi-rigid mold member as recited in claim 6, further comprising a third ply adjacent said second ply, and a fourth ply adjacent said third ply.

- 8. (ORIGINAL) The semi-rigid mold member as recited in claim 7, further comprising a rigid reinforcement insert between said third ply and said fourth ply.
- 9. (ORIGINAL) The semi-rigid mold member as recited in claim 8, wherein said reinforcement insert includes a metallic sheet.
- 10. (ORIGINAL) The semi-rigid mold member as recited in claim 7, wherein said third ply and said fourth ply include a fiber reinforced fluoroelastomer material.
  - 11. (CURRENTLY AMENDED) A composite molding apparatus, comprising: a rigid mold member; and
  - a semi-rigid mold member matable with said rigid mold member, said semi rigid mold member comprising a first ply located directly opposite said rigid mold member, said first ply compromising a sieve member, an elastomeric sheet rubber, and a release film, said release film and said sieve member located adjacent said elastomeric sheet rubber, said release film facing said rigid mold member.

including a sieve member sandwiched therein.

- 12. (CURRENTLY AMENDED) The composite molding apparatus as recited in claim 11, wherein said semi-rigid mold member comprises a first ply and said second ply, said sieve member adjacent said first ply and said second ply.
- 13. (CURRENTLY AMENDED) The composite molding apparatus as recited in claim 12, wherein said first ply and said second ply include comprises a fluoroelastomer material.
- 14. (ORIGINAL) The composite molding apparatus as recited in claim 12, further comprising a third ply adjacent said second ply, and a fourth ply adjacent said third ply.

- 15. (ORIGINAL) The composite molding apparatus as recited in claim 14, further comprising a rigid reinforcement insert between said third ply and said fourth ply.
- 16. (ORIGINAL) The composite molding apparatus as recited in claim 15, wherein said rigid reinforcement insert includes a metallic plate.
- 17. (ORIGINAL) The composite molding apparatus as recited in claim 14, wherein said third ply and said fourth ply include a fiber reinforced fluoroelastomer material.
  - 18. (WITHDRAWN) A method of manufacturing a core composite article, comprising the steps of:
- (1) mating a semi-rigid mold member to a rigid mold member to form a cavity containing a core having a plurality of protruding pins, the core located between a first composite prepreg and a second composite prepreg; and
- (2) evacuating the cavity of said step (1) such that the pins perforate the composite prepreg plies while limiting pin penetration of the semi-rigid mold member to a predetermined depth.
- 19. (WITHDRAWN) A method as recited in claim 18, wherein said step (2) further comprises applying a pressure greater than 45 psi within the cavity.
- 20. (WITHDRAWN) A method as recited in claim 18, wherein said step (2) further comprises controlling said predetermined depth by locating a sieve member within the semi-rigid mold member at said predetermined depth.

21. (WITHDRAWN) A method as recited in claim 18, wherein said step (2) further comprises:

trapping the pins between a sieve member within the semi-rigid mold member and the rigid mold member; and

supporting the semi-rigid mold member relative to the rigid mold member upon the pins to minimize crushing of the core.

## 22. (RE-PRESENTED – ALLOWABLE CLAIM 2)

A semi-rigid mold member, comprising:

- a first ply;
- a second ply adjacent said first ply; and
- a sieve member adjacent said first ply and said second ply, said sieve member embedded in said first ply.
- 23. (NEW) The composite molding apparatus as recited in claim 11, wherein said sieve member is embedded in said first ply.
- 24. (NEW) The semi-rigid mold member as recited in claim 1, wherein said elastomeric sheet rubber material comprises an unreinforced Fluoroelastomeric sheet rubber.
- 25. (NEW) The semi-rigid mold member as recited in claim 1, wherein said second ply comprises an unreinforced Fluoroelastomeric sheet rubber
- 26. (NEW) The composite molding apparatus as recited in claim 11, wherein said elastomeric sheet rubber material comprises an unreinforced Fluoroelastomeric sheet rubber.
- 27. (NEW) The semi-rigid mold member as recited in claim 1, wherein said first ply locates said sieve member a predetermined distance from said release film, said predetermined distance related to a plurality of protruding pins within a core located between a first composite prepreg and a second composite prepreg.

- 28. (NEW) The composite molding apparatus as recited in claim 11, wherein said first ply locates said sieve member a predetermined distance from said release film, said predetermined distance related to a plurality of protruding pins within a core located between a first composite prepreg and a second composite prepreg formed within a cavity defined by said rigid mold member and said semi-rigid mold member.
- 29. (NEW) The composite molding apparatus as recited in claim 11, wherein said sieve member provides approximately 60 micron retention.